

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P14211

Luminaire Tested: **GAR-080-LED-E1-5-SPUN-CAGE**

Issue Date: 6/29/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14211  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 6/29/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GAR-080-LED-E1-5-SPUN-CAGE  
Description: MCGRAW-EDISON POST TOP WITH A TYPE V SOLID TOP  
REFRACTOR WITH ARCHITECTURAL CAGE  
Light Source: [6] 4000K LEDS  
Ballast/Driver: [2] ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9980.8 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.21')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U4 - G3

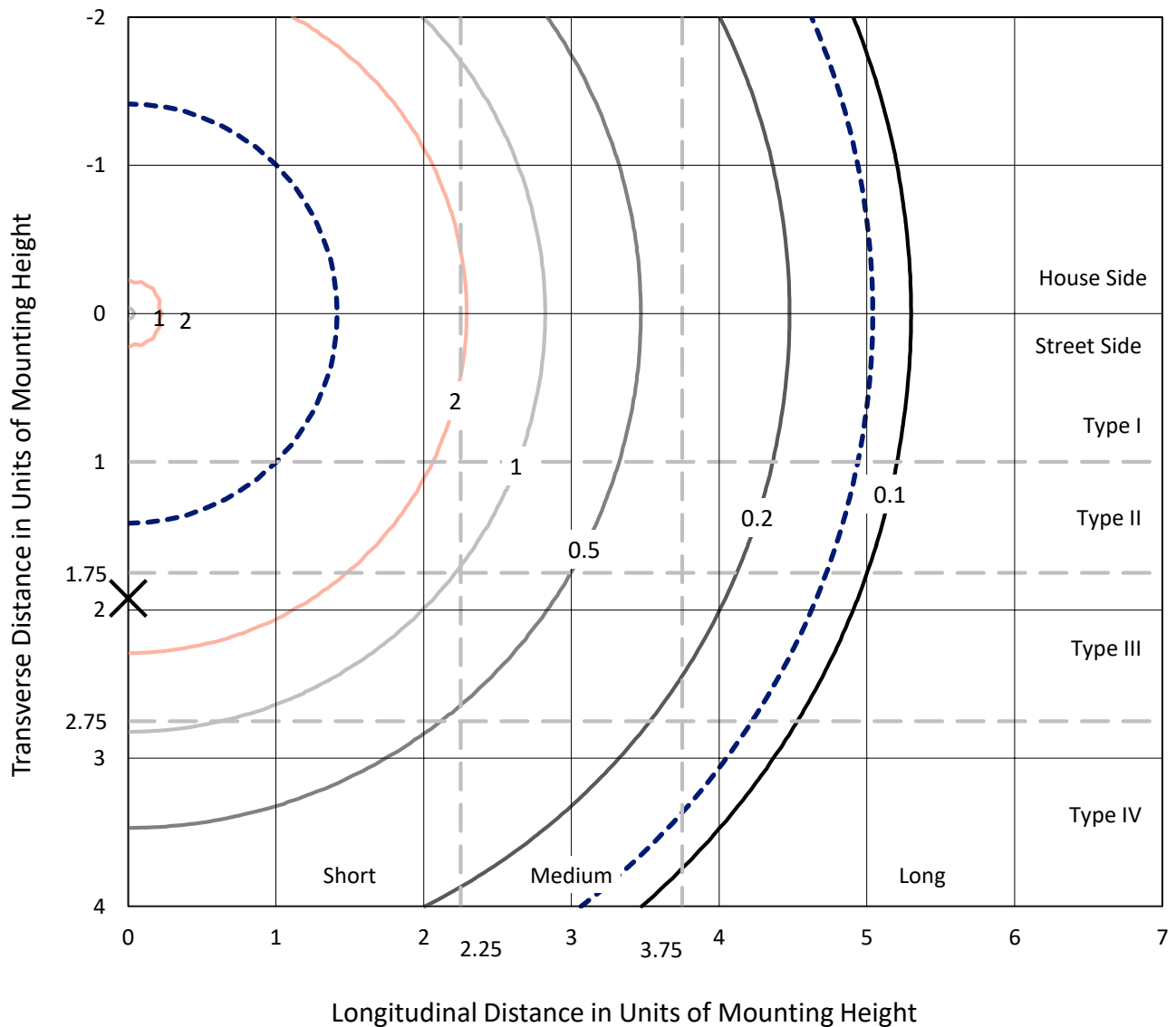
Input Watts (W): 101.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

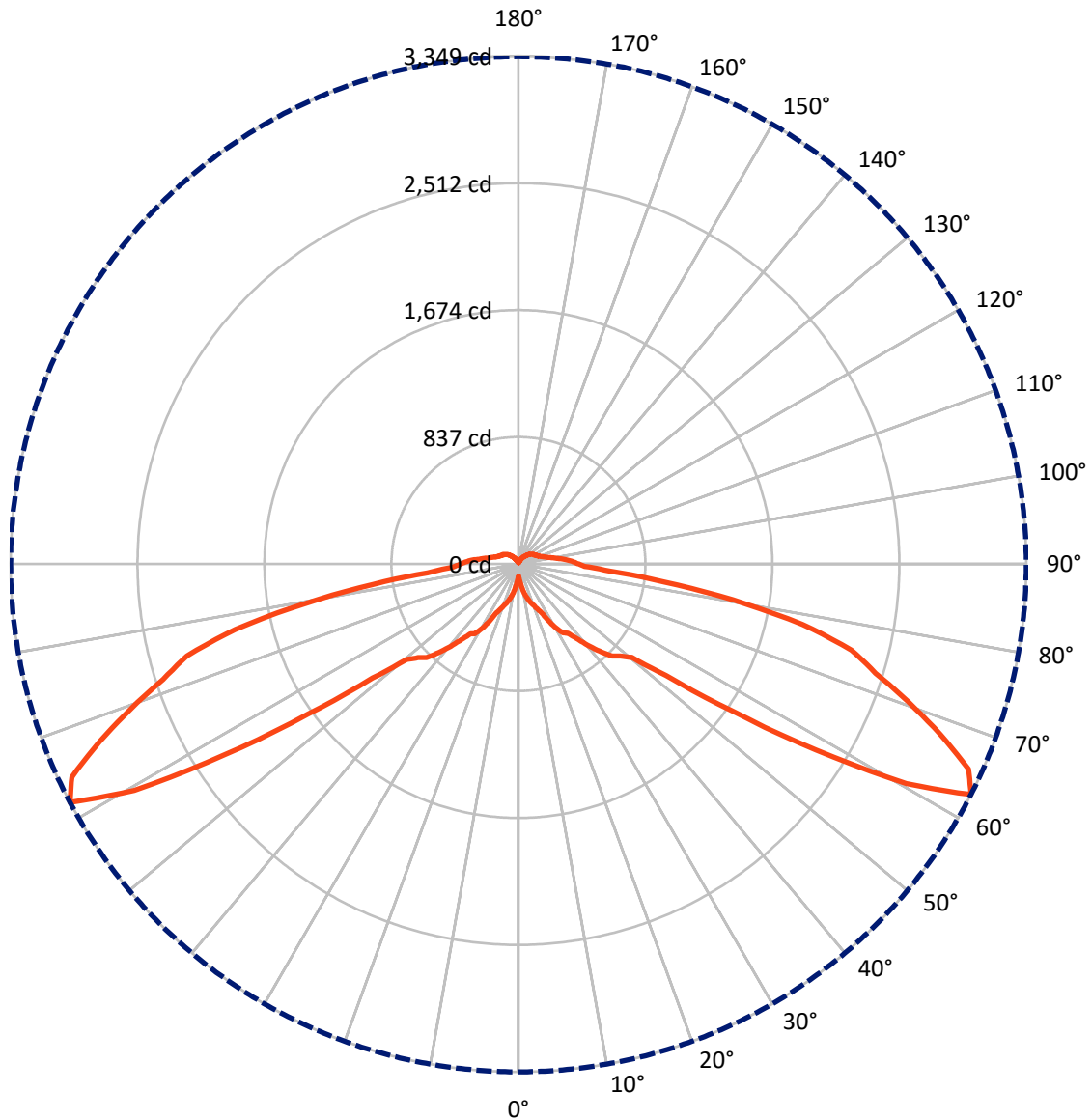
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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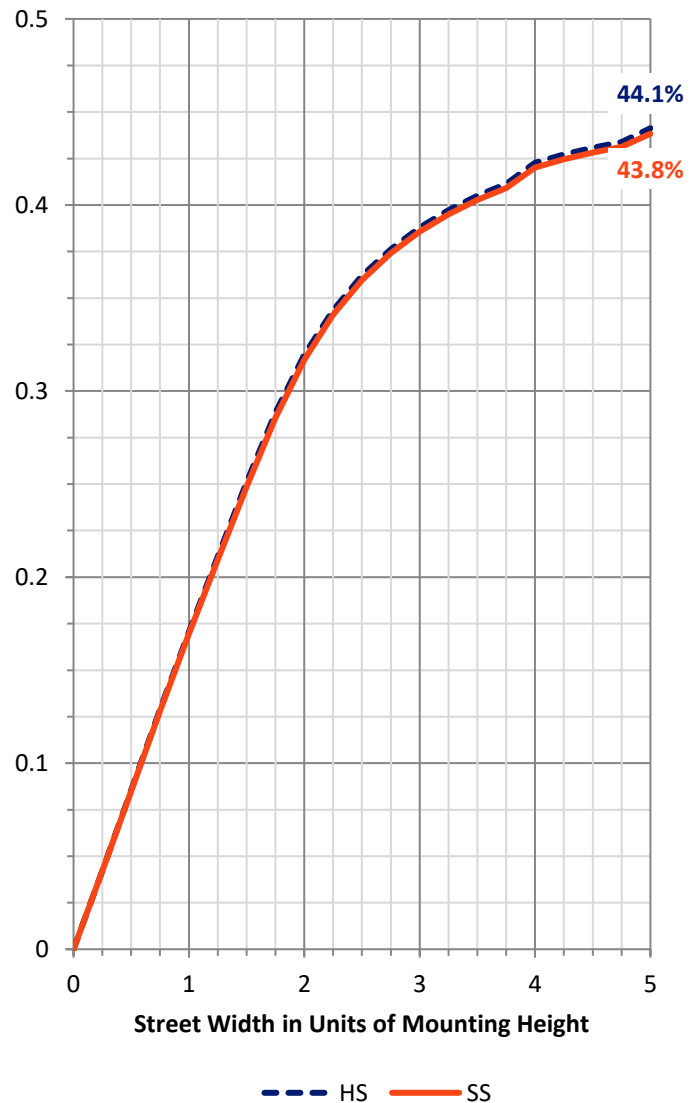
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4550.0	440.4	4990.4
	% Fixture	45.6	4.4	50.0
<b>Street Side</b>	Lumens	4550.0	440.4	4990.4
	% Fixture	45.6	4.4	50.0
<b>Total</b>	Lumens	9100.1	880.7	9980.8
	% Fixture	91.2	8.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	0.1
10°-20°	70.0	0.7
20°-30°	175.7	1.8
30°-40°	366.4	3.7
40°-50°	659.2	6.6
50°-60°	1631.5	16.3
60°-70°	3086.3	30.9
70°-80°	2304.0	23.1
80°-90°	793.5	7.9
90°-100°	337.1	3.4
100°-110°	190.3	1.9
110°-120°	131.8	1.3
120°-130°	100.8	1.0
130°-140°	65.6	0.7
140°-150°	34.5	0.3
150°-160°	14.5	0.1
160°-170°	5.3	0.1
170°-180°	0.9	0.0
0°-90°	9100.1	91.2
0°-180°	9980.8	100.0

**Coefficient of Utilization**



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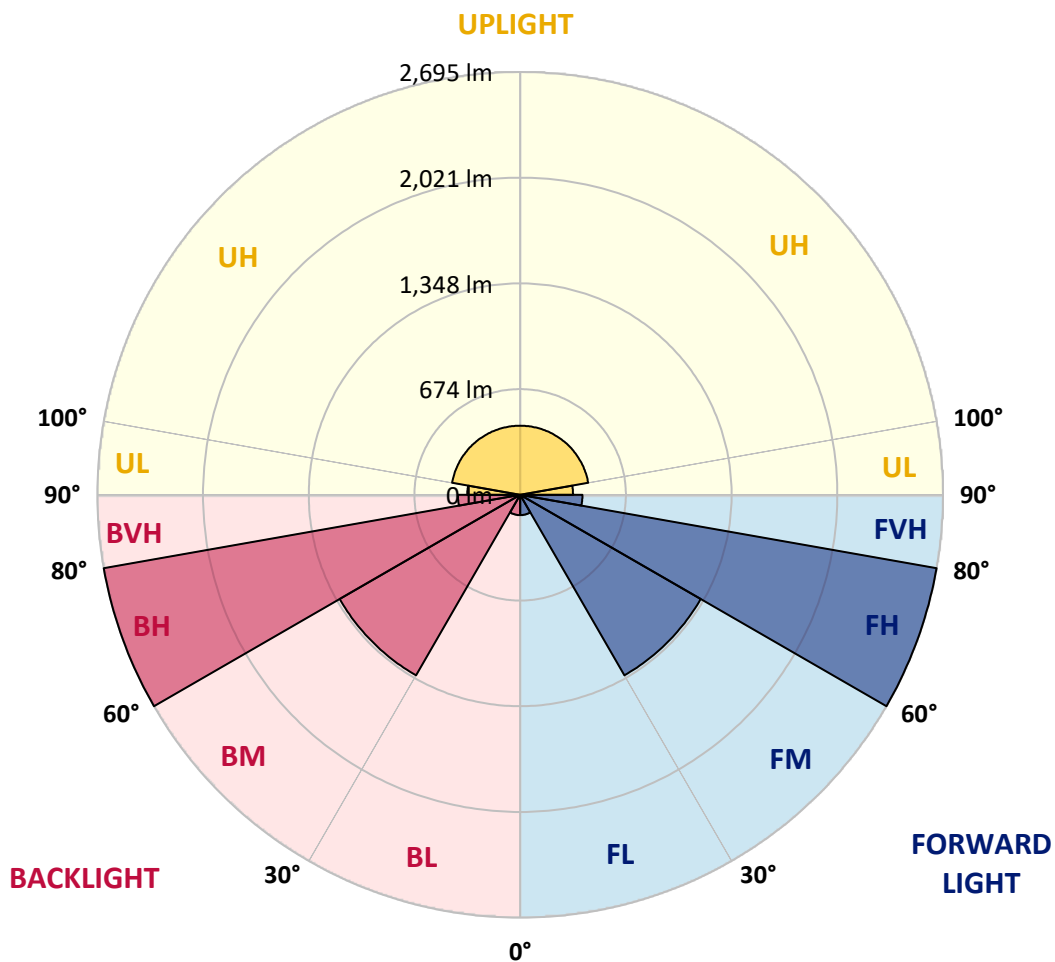
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	129.6	1.3			
FM (30°-60°)	1328.5	13.3			
FH (60°-80°)	2695.1	27.0			G2/5000
FVH (80°-90°)	396.7	4.0			G3/500
BL (0°-30°)	129.6	1.3	B1/500		
BM (30°-60°)	1328.5	13.3	B2/2500		
BH (60°-80°)	2695.1	27.0	B4/5000		G2/5000
BVH (80°-90°)	396.7	4.0			G3/500
UL (90°-100°)	337.1	3.4		U3/500	
UH (100°-180°)	440.4	4.4		U3/500	

**BUG Rating: B4-U4-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	78.7
2.5°	96.8
5°	123.0
7.5°	150.9
10°	185.3
12.5°	214.8
15°	242.7
17.5°	269.0
20°	293.6
22.5°	323.1
25°	355.9
27.5°	424.8
30°	488.7
32.5°	541.2
35°	559.2
37.5°	621.6
40°	703.6
42.5°	785.6
45°	864.3
47.5°	905.3
50°	967.6
52.5°	1220.2
55°	1708.9
57.5°	2312.4
60°	2940.5
62.5°	3348.9
65°	3262.0
67.5°	3001.2
70°	2729.0
72.5°	2463.3
75°	2268.1
77.5°	1915.5
80°	1435.0
82.5°	964.3
85°	601.9
87.5°	436.2
90°	388.7
92.5°	352.6
95°	313.2
97.5°	260.8
100°	228.0
102.5°	195.2
105°	177.1
107.5°	159.1
110°	146.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	139.4
115°	131.2
117.5°	127.9
120°	118.1
122.5°	119.7
125°	113.2
127.5°	106.6
130°	100.0
132.5°	91.8
135°	85.3
137.5°	75.4
140°	68.9
142.5°	59.0
145°	55.8
147.5°	47.6
150°	41.0
152.5°	37.7
155°	29.5
157.5°	24.6
160°	21.3
162.5°	19.7
165°	18.0
167.5°	18.0
170°	13.1
172.5°	8.2
175°	9.8
177.5°	9.8
180°	9.8

(END OF REPORT)